



STATE OF CALIFORNIA
Department of General Services - Office of Procurement

PURCHASE ORDER


<i>Purchase Order No.</i>	<i>Rev.</i>	<i>Date</i>
61998		4/23/2008

Form GSOP 1-PIN (04/98)

PERKINELMER LAS, INC. 710 BRIDGEPORT AVE. M/S 10 SHELTON, CT 06484 Attn: LORRIE GILLIAM	<i>S h i o p</i> DEPT OF JUSTICE TOXICOLOGY LAB 4949 BROADWAY, RM F-249 SACRAMENTO, CA 95820 Attn: GARY DAVIS (916) 227-3620		<i>C h a r o l e</i> JUSTICE D-08 LAW ENFORCEMENT BUREAU OF FORENSIC SER HEADQUARTERS	
	<i>Agency Billing</i> 43561	<i>Agency Purchase Estimate</i> N1981	<i>Purchase Estimate</i> 66654	<i>Revision</i> 2
	<i>Agency Contact</i> ALEX CALDERON		<i>Phone</i> 916-324-6812	<i>Date Received</i>

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
<p>THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT:</p> <p>www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf</p>						
<p>THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:</p>						
<p>PRIME CONTRACTOR: BB</p>						
2	EA		6630-363-0103-0	CHROMATOGRAPH GAS (AS DESCRIBED)	91,955.3900	183,910.78
<p>Gas Chromatograph/Mass Spectrometer per the attached Bid Specification #6630-07BS-009 of (2) two pages dated 11/15/07.</p>						
<p>ALL BIDDERS ARE REQUIRED TO SUBMIT PRODUCT SPECIFICATION AND/OR SUPPORTING DOCUMENTS THAT DEMONSTRATE THAT THE OFFERED PRODUCT IS FULLY COMPLIANT.</p>						
<p>Brand: <u>PERKINELMER</u></p> <p>Model: <u>CLARUS 600GC/MS</u></p>						
<p>Total Value:</p>						<p>183,910.78</p>
<p><u>FOB DESTINATION:</u></p> <p>For the purpose of this order, only F.O.B. Destination will be accepted.</p>						
<p><u>PRE-INSTALLATION REQUIREMENTS:</u></p> <p>At least 30 days prior to the delivery of the system, the contractor must provide DOJ, in writing a list of pre-installation requirements. This list shall include items such as operating environment and site preparation details.</p>						

Sales and/or use tax to be extra unless noted above

Buyer  GUS QUINTERO	Phone 916-375-4499	BOC Number
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Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

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<i>Purchase Order No.</i>	<i>Revision</i>	<i>Date</i>	<i>Supplier No.</i>	<i>Supplier Name</i>
61998		4/23/2008	787752	PERKINELMER LAS, INC.

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
				<p><u>INSTALLATION:</u></p> <p>Installation shall not occur until the complete GC/MS system, including all software, peripherals and accessories are delivered. The installation shall be done by a factory trained person. After the installation is complete the contractor must demonstrate that the entire system is compliant with all of the bid requirements.</p> <p><u>Customer In-Use:</u></p> <p>Each equipment and software component (proposed as part of an automated system) must have been installed and shall be in productive use, in substantially the conformation bid, for a paying customer external to the bidder's organization, for at least six months prior to the bid opening date. The bidder must provide at least 2 customer references that presently have the bid equipment installed and operating. In each case, the name and address of the installation and the name and telephone number of a contact person at that installation must be listed.</p> <p><u>Acceptance Testing:</u></p> <p>Acceptance testing shall start after the installation of the equipment. The acceptance testing shall consist of checking the equipment for compliance with the attached specification. During this time, the equipment will also be used to run routine samples. The duration of the acceptance testing period shall be five (5) days minimum and 30 days maximum.</p> <p>If the equipment fails to meet the specification requirements listed herein during the acceptance testing period, the contractor will be declared in default.</p> <p>Equipment shall not be accepted by the State and no charges associated with such equipment shall be paid by the State.</p> <p>Immediately upon successful completion of the acceptance tests, the State shall notify the contractor in writing of acceptance of the equipment and authorize appropriate payment.</p> <p><u>WARRANTY:</u></p> <p>The warranty shall start after the acceptance of the system. The system shall be covered by the warranty for a minimum of three years. This three year warranty may require that the contractor extends the manufactures standard warranty. The warranty shall include all parts and labor incurred by the contractor to maintain the system in new condition. The warranty shall include the cost of labor, travel expenses, and per diem.</p> <p><u>CHANGE ORDERS:</u></p> <p>Any Purchase Order resulting from this bid may be amended, modified, or terminated at any time by mutual agreement of the parties in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.</p> <p>This Purchase order has been registered into the state contract and procurement registration system (https://www.scprs.dgs.ca.gov/). The registration number is 08200408300225.</p>		



Bid Specification
Gas Chromatograph/Mass Spectrometer System

6630-07BS-009

1. **Scope**

The requirement herein describes a Gas Chromatograph/Mass Spectrometer System for the Department of Justice, Bureau of Forensic Services. The System shall comprise of a gas chromatograph with an automatic liquid sampler (ALS), a mass spectrometer, and a data system.

2. **Applicable Specifications**

Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced.

3. **Requirements**

3.1. Gas Chromatograph with ALS shall:

- 3.1.1. Be equipped with split-splitless injector.
- 3.1.2. Be able to program the oven temperature up to 450°C with at least 2 possible ramps.
- 3.1.3. Be capable of rapid analysis "fast" GC.
- 3.1.4. Utilize hydrogen as a carrier gas. The system must also have a hydrogen safety shutdown function.
- 3.1.5. Be capable of constant pressure and constant flow modes that are programmable from the data system.
- 3.1.6. Be able to achieve constant retention times due to changes in column length through gas pneumatics and/or software manipulation.
- 3.1.7. Be equipped with at least 83 sample ALS tray.
- 3.1.8. Have a capillary direct interface to the mass spectrometer.

3.2. Mass Spectrometer:

- 3.2.1. Source shall operate in Electronic Impact (EI) and Chemical Ionization (CI) modes.
- 3.2.2. CI reagent gas flows shall be electronically controlled through the software so that the system can operate in CI and EI in one automated sequence.
- 3.2.3. Ion source shall be made of stainless steel or other inert material
- 3.2.4. Instrument must have a scan rate of 10,000 amu/sec with a write to disk rate of 8,000 amu/sec.
- 3.2.5. Source temperature shall be programmable from the Data System up to 300°C.
- 3.2.6. Mass filter shall be a quadrupole type. Ion traps in any configuration are not acceptable.
 - 3.2.6.1. Mass range shall be at least 1.6 to 1000 Atomic Mass Unit (amu).
 - 3.2.6.2. Mass axis stability shall be better than or equal to 0.1 amu/48 hours have a scan rate of 10,000 amu/sec.
- 3.2.7. In Single Ion Monitoring mode the system must be able to acquire data for at least 30 different ion groups with up to at least 30 ions per group.
- 3.2.8. The ionization source and electron multiplier in the system should be easily removable without the need for specialize tools.
- 3.2.10 Turbo-Pump with a pumping capacity for helium of 250L/sec or greater. Pumping system should be able to accommodate carrier gas flows of helium of up to 4mL/min.
- 3.2.11 EI sensitivity specification of at least: Signal to Noise (S/N) 175:1 when injecting 1µl of 1pg/µl OctaFluoroNaphtalene (OFN) standard scanning from 50-300 u at nominal m/z 272 ion. Must be demonstrated at installation utilizing the agency laboratory facilities.

- 3.2.12 Positive Chemical Ionization scan sensitivity specification of at least: Signal to Noise (S/N) 125:1 at nominal m/z 183 ion when injecting 1 μ l of 100 pg/ μ l BZP standard scanning from 80-230 u with methane reagent gas.
- 3.3.13 Negative Chemical Ionization scan sensitivity specification of at least: Signal to Noise (S/N) 600:1 at nominal m/z 272 ion when injecting 1 μ l of 0.2 pg/ μ l OFN standard scanning from 50-300 u with methane reagent gas.

3.3. Data System shall include all application software/hardware and shall comply with the following:

- 3.3.1. Shall be capable of controlling both the Mass Spectrometer and Gas Chromatograph simultaneously and autosampler control.
- 3.3.2. Shall be able to perform auto tunes, standard tunes, user tunes or target tunes.
- 3.3.3. Shall be equipped with automated quantitation setup.
- 3.3.4. Contain the National Institute of Standards and Technology Library Mass Spectral search program.
- 3.3.5. Shall provide customer reports per user's requirement.
- 3.3.6. Shall be capable of accepting deconvolution software.
- 3.3.7. The hardware system shall include but not be limited to 1) Windows® Operating system 2) 2.8 GHz minimum CPU, 3) minimum 1 GB RAM memory, 4) min 80 GB Hard Drive, 5) DVD Drive with Read/Write CD or DVD, 6) Minimum 17" Flat Panel display and 7) Laser printer.
- 3.3.8. The data system must have user-friendly software that allows the user to write and add macros for the further automation of the GC/MS system.
- 3.3.10 The data files generated by the data system shall be compatible with the files from the current inventory of Agilent instruments (G 1701 DA Version D.00.00.38 Nov 19, 2001) in the Receiving Laboratory. Existing datafiles must be loadable and evaluated on the new PC workstations (i.e. – The new data analysis software must be fully compatible with our older files in case reprocessing is needed.)
- 3.3.11 The Data station shall be network-ready and have all the necessary software and hardware (cards) for connection to the BFS network and Laboratory Information Management System (JusticeTrax) for data storage and processing.